

Appln. No.: 10/738,390
Amendment Dated July 13, 2005
Reply to Office Action of May 23, 2005

ITDE-PNV100US

Amendments to the Drawings:

The attached sheets of drawings include changes to Figures 3, 4, 7, 10, 14a and 14b. These sheets replace the original sheets.

Attachment

Remarks/Arguments:

Claims 1-18 stand rejected.

Applicants thank the Examiner for the opportunity to discuss the claims in view of the cited references, during an Interview conducted on June 27, 2005.

Drawings:

As requested, Figures 14a and 14b have now been designated with the legend of "Prior Art".

During the interview with the Examiner, it was requested that Figures 3, 4, 7 and 10 be amended to show that the antenna symbols in these figures denotes a sensing pad. (Basis for the sensing pad may be seen, for example, at page 8 of the specification, lines 6-7).

Specification:

As requested, applicants have now submitted a new title of the invention, which is more descriptive of the invention.

Section 102/103 Rejections:

Claims 1-12 and 16-18 have been rejected as being anticipated/obvious in view of Huang. Claims 13-15 have been rejected as being obvious in view of Koishi and Huang. Applicants respectfully submit that these rejections are overcome for the reasons set forth below.

Amended claim 1 now includes features which are not anticipated or suggested by the cited references, namely:

- a **plurality of switching elements connected between respective ones of the plurality of energy sensing elements**,
- the imaging device configured to collect energy received **by at least two of the plurality of energy sensing elements** in the at least one respective charge collection element, through actuation of at least one of the switching elements.

Basis for amended claim 1 may be seen, for example, in FIG. 3. As shown, several FET transistors are labeled as Qodd and Qeven, etc. These FET transistors behave as switching elements that are **connected between respective ones of the energy sensing elements**. These sensing elements are labeled in revised FIG. 3 as sensing pads, that are depicted as antenna symbols.

Accordingly, as may be seen in FIG. 3, for example, each of the switching elements (FET transistor) is **connected between respective sensing pads**. Furthermore, the imaging device is configured to **collect energy from at least two of the energy sensing elements** (the first and second pads in the figure) by actuation of at least one of the switching elements (Qodd).

Huang, on the other hand, discloses, in FIG. 1, several switching elements designated as 38. Each switching element 38 has one input line connected to **only one sensing element 36**. Huang teaches that **only a single** sensing element 36 may be selected by switch 38 at any one time. The other two input lines of each switching element are connected to lines 26 and 24, which are control selection lines for a column and a row of the array. Huang does **not** suggest a plurality of **switching elements that are connected between respective ones of the plurality of energy sensing elements**. Furthermore, Huang does **not** suggest an imaging device that is configured to collect energy received from **at least two energy sensing elements, through actuation of at least one of the switching elements**.

Koishi discloses an imaging device that includes a photocathode, a MCP, a light receiving device and a display device. However, as admitted by the Examiner, Koishi does **not** disclose an imaging device that has a plurality of switching elements and a plurality of energy sensing elements.

Furthermore, as now amended in claim 1, Koishi does **not** disclose a switching element that is connected between respective energy sensing elements. Furthermore, Koishi does **not** disclose an imaging device that is configured to collect energy from at least two energy sensing elements, through actuation of at least one of the switching elements.

Favorable reconsideration is requested for amended claim 1.

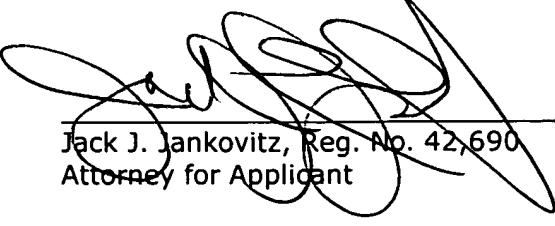
Independent claims 13 and 16 have been amended to include features similar to amended claim 1. These independent claims are, therefore, not subject to rejection in view of the cited references for the same reasons set forth for amended claim 1. Favorable reconsideration is requested for independent claims 13 and 16.

Dependent claims 2-12, 14-15 and 17-18 depend, respectively, from amended claims 1, 13 and 16. These dependents claims are, therefore, not subject to rejection in view of the cited references for at least the same reasons set forth for amended claim 1. Favorable reconsideration is respectfully requested.

Conclusion

Claims 1-18 are now in condition for allowance.

Respectfully submitted,



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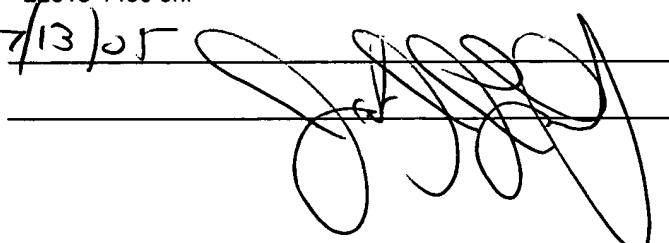
Attachments: Figures 3, 4, 7, 10, 14a and 14b

Dated: July 13, 2005

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